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WHAT IS CLAIMED IS:

1. A copper alloy suitable for an IC lead pin for a pin grid array provided on a plastic substrate, which copper alloy is selected from the group consisting of:

a copper alloy containing 0.05 to 0.5 wt% of Zn and 0.05 to 0.5 wt% of Mg, with the balance being made of unavoidable impurities and Cu;

a copper alloy containing 0.1 to 1.0 wt% of Sn, with the balance being made of unavoidable impurities and Cu;

a copper alloy containing 0.1 to 1.0 wt% of Sn and 0.1 to 0.6 wt% of Ag, with the balance being made of unavoidable impurities and Cu;

a copper alloy containing 2.1 to 2.6 wt% of Fe, 0.05 to 0.2 wt% of Zn, and 0.015 to 0.15 wt% of P, with the balance being made of unavoidable impurities and Cu; and

a copper alloy containing 0.4 to 1.1 wt% of Cr, with the balance being made of unavoidable impurities and Cu,

wherein the copper alloy has conductivity of 50% 20 IACS or more, and tensile stress of 400 MPa or more but 650 MPa or less.

2. The copper alloy as claimed in claim 1, which is the copper alloy containing 0.05 to 0.5 wt% of Zn and 0.05 to 0.5 wt% of Mg, with the balance being made of

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unavoidable impurities and Cu.

- 3. The copper alloy as claimed in claim 1, which is the copper alloy containing 0.1 to 1.0 wt% of Sn, with the balance being made of unavoidable impurities and Cu.
- 4. The copper alloy as claimed in claim 1, which is the copper alloy containing 0.1 to 1.0 wt% of Sn and 0.1 to 0.6 wt% of Ag, with the balance being made of unavoidable impurities and Cu.
- 5. The copper alloy as claimed in claim 1, which is the copper alloy containing 2.1 to 2.6 wt% of Fe, 0.05 to 0.2 wt% of Zn, and 0.015 to 0.15 wt% of P, with the balance being made of unavoidable impurities and Cu.
- 6. The copper alloy as claimed in claim 1, which is the copper alloy containing 0.4 to 1.1 wt% of Cr, with the balance being made of unavoidable impurities and Cu.

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